

Beyondsoft Disaster Recovery Solution in Azure: 5-Week Implementation

Beyondsoft will deploy a disaster and recovery solution in Azure, based on Azure Site Recovery technology, with the aim of helping your organization through the challenges of keeping your operation and your business running even after identifying interruptions in IT services.

What is the Beyondsoft Disaster Recovery Solution in Azure?

As an organization, you need to adopt a business continuity and disaster recovery (BCDR) strategy that keeps your data safe, and your apps and workloads online, when planned and unplanned outages occur.

Azure Recovery Services contributes to your BCDR strategy:

Site Recovery service: Site Recovery helps ensure business continuity by keeping business apps and workloads running during outages. Site Recovery replicates workloads running on physical and virtual machines (VMs) from a primary site to a secondary location. When an outage occurs at your primary site, you fail over to a secondary location, and access apps from there. After the primary location is running again, you can fail back to it.

Azure Site Recovery has an option of High Churn, enabling you to configure disaster recovery for Azure VMs having data churn up to 100 MB/s. This helps you to enable disaster recovery for more IO intensive workloads. [Learn more.](#)

Site Recovery can manage replication for:

- Azure VMs replicating between Azure regions.
- Replication from Azure Public Multi-Access Edge Compute (MEC) to the region
- Replication between two Azure Public MECs
- On-premises VMs, Azure Stack VMs, and physical

What does Azure Site Recovery provide?

FEATURE	DETAILS
Simple BCDR solution	Using Site Recovery, you can set up and manage replication, failover, and failback from a single location in the Azure portal.
Azure VM replication	You can set up disaster recovery of Azure VMs from a primary region to a secondary region or from Azure Public MEC to the Azure region or from one Azure Public MEC to another Azure Public MEC connected to the same Azure region.
VMware VM replication	You can replicate VMware VMs to Azure using the improved Azure Site Recovery replication appliance that offers better security and resilience than the configuration server. For more information, see Disaster recovery of VMware VMs.
On-premises VM replication	You can replicate on-premises VMs and physical servers to Azure. Replication to Azure eliminates the cost and complexity of maintaining a secondary datacenter.
Workload replication	Replicate any workload running on supported Azure VMs, on-premises Hyper-V and VMware VMs, and Windows/Linux physical servers.
Data resilience	Site Recovery orchestrates replication without intercepting application data. When you replicate to Azure, data is stored in Azure storage, with the resilience that provides. When failover occurs, Azure VMs are created based on the replicated data. This also applies to Public MEC to Azure region Azure Site Recovery scenario. In case of Azure Public MEC to Public MEC Azure Site Recovery scenario (the ASR functionality for Public MEC is in preview state), data is stored in the Public MEC.
RTO and RPO targets	Keep recovery time objectives (RTO) and recovery point objectives (RPO) within organizational limits. Site Recovery provides continuous replication for Azure VMs and VMware VMs, and replication frequency as low as 30 seconds for Hyper-V. You can reduce RTO further by integrating with Azure Traffic Manager.

FEATURE	DETAILS
Keep apps consistent over failover	You can replicate using recovery points with application-consistent snapshots. These snapshots capture disk data, all data in memory, and all transactions in process.
Testing without disruption	You can easily run disaster recovery drills, without affecting ongoing replication.
Flexible failovers	You can run planned failovers for expected outages with zero-data loss, or unplanned failovers with minimal data loss, depending on replication frequency, for unexpected disasters. You can easily fail back to your primary site when it is available again.
Customized recovery plans	Using recovery plans, you can customize and sequence the failover and recovery of multi-tier applications running on multiple VMs. You group machines together in a recovery plan, and optionally add scripts and manual actions. Recovery plans can be integrated with Azure Automation runbooks. Note: This functionality is currently supported for Region-to-Region replication and will be available on Azure Public MEC soon.
BCDR integration	Site Recovery integrates with other BCDR technologies. For example, you can use Site Recovery to protect the SQL Server backend of corporate workloads, with native support for SQL Server Always On, to manage the failover of availability groups.
Azure automation integration	A rich Azure Automation library provides production-ready, application-specific scripts that can be downloaded and integrated with Site Recovery.
Network integration	Site Recovery integrates with Azure for application network management. For example, to reserve IP addresses, configure load-balancers, and use Azure Traffic Manager for efficient network switchovers.

But how do you implement Site Recovery in your organization? That's where we come in. We are a team of experts who can help you deploy Microsoft Azure Site Recovery in a fast and efficient way. We can help you:

- Support in identifying eligible workloads.
- Support in baseline definitions.
- Support with the compliance and technical requirements.
- Configure the Azure Site Recovery.
- Run the failover tests.
- Knowledge transfer.

With our services, you can benefit from:

- Business continuity with data protection at very low costs.
- Easy failover and recovery.
- Financial loss minimization.
- Risk reduction.
- Improving reputation.
- Regulatory compliance.

Overall Project Outline:

- 1st week: Overall assessment and Planning Phase.
- 2nd and 3rd week: Deployment Phase.
- 4th week: Azure Site Recovery syncing and Knowledge Transfer Phase.
- 5th week: Failover test and documentation Phase.

Additional Details:

- All terms, conditions, final scope, and pricing are custom to each engagement and must be accepted before the start of the engagement.
- Up to 50 servers (Azure VMs, VMs from other public clouds and or on-premises servers) can be onboarded into the deployed Azure Site Recovery solutions.
- Additional Azure costs will be applicable.

Customer Requirements:

- Provide information about the eligible environments for the DR plan.
- Azure costs when applicable.